

10/797,456
January 17th, 2006
Reply to Office Action of 11/25/2005

Via Facsimile

Listing of the Claims

This listing of the claims shall replace all previous listings:

1. (Currently Amended) Semi-conducting thin sheet wedges comprising:
a mica matrix, wherein said mica matrix comprises mica flakes; and
a conductive resin impregnated within said mica matrix;
wherein said thin sheet wedges have a semi-conductive property of between 500-500,000 ohms per square;
whereby said semi-conducting thin sheet wedges are thin sheet wedges.
2. (Original) The semi-conducting thin sheet wedges of claim 1, wherein said thin sheet wedges have a thickness of between about 15-80 mils (0.38-2.0 mm).
3. (Original) The semi-conducting thin sheet wedges of claim 1, wherein said mica flakes comprise at least one of muscovite, phlogopite and combinations thereof.
4. (Original) The semi-conducting thin sheet wedges of claim 1, wherein said resin comprises approximately 15-40% by weight of said thin sheet wedges.
5. (Original) The semi-conducting thin sheet wedges of claim 1, wherein said resin is C-black.
6. (Original) The semi-conducting thin sheet wedges of claim 1, wherein said thin sheet wedges have a tensile modulus of between 1-8 million PSI.
7. (Original) The semi-conducting thin sheet wedges of claim 1, wherein said thin sheet wedges further comprises at least one glass fiber layer.
8. (Original) The semi-conducting thin sheet wedges of claim 7, wherein the ratio of the mica in said mica matrix to the glass fiber is approximately between 2:1 and 7:1 by weight.
9. (Original) The semi-conducting thin sheet wedges of claim 7, wherein said at least one glass fiber layer forms a backing for said mica matrix.
10. (Original) The semi-conducting thin sheet wedges of claim 7, wherein said at least one glass fiber layer is interwoven with said mica matrix.

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11. (Original) The semi-conducting thin sheet wedges of claim 10, wherein said at least one glass fiber layer is interwoven in a half-lap manner.
12. (Currently Amended) Semi-conducting thin sheet wedges comprising:
a mica matrix, wherein said mica matrix comprises mica flakes;
at least one layer of glass fiber; and
a conductive resin impregnated within at least one of said mica matrix and said at least one layer of glass fiber;
wherein said thin sheet wedges have a semi-conductive property of between 500-500,000 ohms per square;
wherein said thin sheet wedges have a tensile modulus of between 1-8 million PSI;
whereby said semi-conducting thin sheet wedges are thin sheet wedges.
13. (Original) The semi-conducting thin sheet wedges of claim 12, wherein the ratio of the mica in said mica matrix to the glass fiber is approximately between 2:1 and 7:1 by weight.
14. (Original) The semi-conducting thin sheet wedges of claim 12, wherein said at Least one glass fiber layer forms a backing for said mica matrix.
15. (Original) The semi-conducting thin sheet wedges of claim 12, wherein said at least one glass fiber layer is interwoven with said mica matrix.
16. (Original) The semi-conducting thin sheet wedges of claim 15, wherein said at least one glass fiber layer is interwoven in a half-lap manner.
17. (Original) The semi-conducting thin sheet wedges of claim 12, wherein said mica flakes comprise at least one of muscovite, phlogopite and combinations thereof.
18. (Original) The semi-conducting thin sheet wedges of claim 12, wherein said resin comprises approximately 15-40% by weight of said thin sheet wedges.
19. (Original) The semi-conducting thin sheet wedges of claim 12, wherein said resin is C-black.

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20.(Currently Amended) A method for making semi-conductive thin sheet wedges comprising:

layering a mica matrix onto a glass fiber backing, wherein said mica matrix comprises mica flakes;

impregnating into said mica matrix and said glass fiber a conductive resin;

and

curing said conductive resin;

whereby said semi-conducting thin sheet wedges are thin sheet wedges.